Fall 2011 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0524 Reclamation District No. 0524 Middle	Overall LMA Rating	Total LMA Miles					
Roberts Island	U	6.26					
					Encroachments		
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	CO Miles	
Earthen Levee							
Vegetation	0.07	0.28	1.19	19.01%			
Trim / Thin Trees	0.77	0.08	1.09	17.41%			
Encroachments	0.24	0.01	0.28	4.47%	0.06	0.12	
Animal Control	0.35		0.35	5.59%			
Slope Stability	0.10		0.10	1.60%			
Erosion / Bank Caving	0.22		0.22	3.51%			
Crown Surface / Depressions / Rutting	0.02		0.02	0.32%			
Supplemental							
DWR Erosion Survey	0.02	0.35	1.42	22.68%			
LMA Totals:	1.79	0.72	4.67	74.60%	0.06	0.12	

LMA District Cover Sheet

Fall 2011 Levee Inspection Results

Reclamation District No. 0524 Middle Roberts Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)				
* Overall LMA Rating (Fall Only)			U					
	** Non-receipt of Su	ımmer or Winter Inspe	ection Reports may effec	et overall annual rating				
* SPRING INSPECTIONS: Overall maintenance deficiencies are rated		nined for the spring ind ria in the spring and in		ual maintenance				
FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.								
Comments								

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Reclamation District No. 0524 Middle Roberts Island

	Water	way		Bank	Unit Miles
	Unit No. 01 San	Joaquin River		Left	6.26
	Spring (March - May)	Summer (June - August)	(September - November) Fall		Winter ber - February)
Unit Maintenance Rating (Fall Only)			U		
Date of Inspection	4/6/2011 - 4/12/2011		10/26/2011 - 10/26/2011		
DWR Inspector	Richard Willoughby		Richard Willoughby		
Accompanied By	Mario Jaques RD 524		Mario Jaques RD 524		
Check one:	vinter (or summer) inspection p	period. mv staff or I hav	e inspected the levee and asso	ociated fl	lood
project components conditions other tha	identified in the attached Leve n the results of our normal mai ed in the enclosed report.	e Inspection Report by	Mile. We have found no chang	ges in flo	
project components maintenance and th following changes ir (In the comment se	vinter (or summer) inspection p identified in the attached Leve e corrections we have made to a flood project conditions.	ee Inspection Report by o maintenance deficiend eet(s), identify change of	Mile. In addition to the results cies identified in the report, we of condition by: Start to End Le	of our no have fou	ormal und the e or GPS
coordinates, location	n (Land Side, Water Side, or C	rown), item identificatio	on, and description of the curre	ent condi	iion).
Comments					
information must also be	3	eet should be signed ar	nd dated by the LMA Represent of 31 (Winter Inspection). Plead aspection Reports et al., Suite 200	tative an	nd returned to
•					

Date

Signature of LMA Representative

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

LMR	Levee	Mile	0-1	16	Loca	Rating	Astion (Ossessed	GPS Latitud	de/Longitude	Issue No.
No.	Start	End	Category	Item	** Location	ing	Action/Comment	Start	End	Photo
1	0.22	0.22	Earthen Levee	Crown Surface / Depressions / Rutting	CR N	M	Regrade the crown roadway for proper drainage.	37.938890 ° -121.343657 °	37.938890 ° -121.343657 °	3 Y
2	0.36	0.36	Earthen Levee	Encroachments	LS M	M	Garbage	37.938338 ° -121.341290 °	37.938338 ° -121.341290 °	15 Y
3	0.38	0.39	Earthen Levee	Erosion / Bank Caving	WS N	M	Note and monitor erosion site.	37.938527 ° -121.340887 °	37.938553 ° -121.340778 °	4 Y
4	0.48	0.49	Earthen Levee	Erosion / Bank Caving	WS V	W	Schedule repair of erosion site prior to the next inspection.	37.938693 ° -121.339063 °	37.938693 ° -121.338993 °	6 Y
5	0.51	0.52	Earthen Levee	Erosion / Bank Caving	WS V	W	Schedule repair of erosion site prior to the next inspection.	37.938682 ° -121.338518 °	37.938657 ° -121.338425 °	7 Y
6	0.53	0.60	Supplemental	DWR Erosion Survey	ws t		Inspector Comments: 08/23/2011: No signficant changes observed on site.09/07/2010: No signficant changes observed on site. Some emergent vegetation at the lower and middle slope. Existing revetment is no longer adequately protecting the oversteepened slope. Some of the broken concrete used as revetment has slid, dragging levee materials away from the slope and creating notches. 09/29/2009: Erosion site extends from RM 41.11 to 41.18; existing revetment is no longer adequately protecting the oversteepened slope.2008: Existing concrete slabs were placed as temporary fix; some of the slabs have started to slide, dragging levee materials away from the slope and creating notches; note that a sewage treatment plant is located on the landside of the levee. [2011 Site ID:RD0524U01RM41.15]	37.938895 ° -121.337602 °	37.938895 ° -121.337602 °	79 Y
7	0.63	0.63	Earthen Levee	Slope Stability	WS N	М	Repair the levee slope damaged by foot traffic and prevent access where possible.	37.938247 ° -121.336503 °	37.938247 ° -121.336503 °	10
8	0.63	0.64	Earthen Levee	Vegetation	ws ı	U	Remove the wild growth other than native grasses from the levee slopes.	37.938247 ° -121.336503 °	37.938197 ° -121.336405 °	11 Y
9	0.64	0.64	Earthen Levee	Crown Surface / Depressions / Rutting	CR N	М	Regrade the crown roadway for proper drainage.	37.938198 ° -121.336407 °	37.938198 ° -121.336407 °	12 Y
10	0.65	0.66	Earthen Levee	Slope Stability	WS M	М	Repair slope instability.	37.938105 ° -121.336288 °	37.938023 ° -121.336173 °	13 Y
11	0.68	0.68	Earthen Levee	Vegetation	ws ı	U	Remove the wild growth other than native grasses from the levee slopes.	37.937808 ° -121.335913 °	37.937808 ° -121.335913 °	14 Y

LS	· I a	nd S	Side

WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Start End Find Category Item Start End Find Fin										
lnspector Comments: 08/23/2011: The site is located immediately upstream of a Railroad bridge, Dense vegetation at the water line interfers the view of erosion. [2011 Site ID:RD0524U01RM41.39] 13 0.78 0.78 Earthen Levee Vegetation	LMR No.			Category	Item	Location	Rating	Action/Comment		 No.
the levee slopes. Inspector Comments: Dense vegetation at landside toe along fence line. 14 0.79 0.79 Earthen Trim / Thin Ls M Trim trees to at least five feet above ground level. 37.936444 ° 37.936444 ° 121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334797 ° -121.334698 ° -121.334698 ° -121.334698 ° -121.334698 ° -121.334698 ° -121.334698 ° -121.334698 ° -121.334698 ° -121.333202 ° -121.332	12	0.77	0.78	Supplementa			U	immediately upstream of a Railroad bridge. Dense vegetation at the water line interfers the view of erosion.		90 Y
Levee Trees	13	0.78	0.78		Vegetation	LS	М	the levee slopes. Inspector Comments: Dense vegetation at landside toe		262 Y
Leve Caving	14	0.79	0.79			LS	М	Trim trees to at least five feet above ground level.		 76 Y
Survey Inspector Comments: 08/23/2011: The erosion site is immediately donstream of the riprap protection. [2011 Site ID:RD0524U01RM41.5] 17	15	0.81	0.81			WS	М	Note and monitor erosion site.		16
Levee Trees121.332864 ° -121.331334 ° \	16	0.91	0.91	Supplemental		WS	U	immediately donstream of the riprap protection. [2011 Site	-121.333202 ° -12	 99 Y
Survey Inspector Comments: 08/23/2011: The site is about 500 ft downstream of bridge. The levee toe seems to be protected, but the protection is being washed away. [2011] 19 1.03 1.03 Earthen Levee Erosion / Bank Caving Erosion / Bank Caving WS M Schedule repair of erosion site prior to the next inspection. 37.935018 ° 37.935098 ° 1-21.331248 ° -121.331248 ° -121.331645 ° 37.934645 °	17	0.94	1.02			LS	М	Trim trees to at least five feet above ground level.		77 Y
Levee Caving -121.331248 ° -121.331645 ° N 20 1.09 1.09 Earthen Levee Slope Stability LS M Repair slope instability. 37.934645 ° 37.934645 ° 37.934645 ° 121.330310 ° N 21 1.14 1.17 Earthen Trim / Thin WS M Trim trees to at least five feet above ground level. 37.934118 ° 37.933775 ° 1	18	1.00	1.01	Supplemental		WS	U	downstream of bridge. The levee toe seems to be protected, but the protection is being washed away. [2011		1 Y
Levee Clope Stability Levee Clope Stability Levee Clope Stability Levee Clope Stability Clope	19	1.03	1.03			WS	М	Schedule repair of erosion site prior to the next inspection.		17 Y
•	20	1.09	1.09		Slope Stability	LS	M	Repair slope instability.		18 Y
	21	1.14	1.17			WS	M	Trim trees to at least five feet above ground level.		19 Y

* Location LS: Land Side WS: Water Side CR: Crown ** Rating

A : Acceptable
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W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

LMR	Levee	Mile	Catagoni	Itom	Location *	Rating	Action/Comment	GPS Latitud	de/Longitude	Issue No.
No.	Start	End	Category	Item	tion	ing	Action/Comment	Start	End	Photo
22	1.16	1.24	Supplementa	DWR Erosion Survey	WS	U	Inspector Comments: 08/23/2011: No significant changes observed on site.9/07/2010: No significant changes observed on site. Some emergent vegetation at the water line. There is an exposed pipe discharge partially hanging at the mid-slope, possibly still used for discharging irrigation/runoff water. There is minimal rip rap protection along the bank, and what's left of it is no longer adequately protecting the bank.9/29/2009: Site consists of a 400-foot long eroding bank with minimal vegetation and protection; the existing rip rap has sloughed, rendering it useless; note that there is an exposed section of a pipe.10/18/2006: There is extensive loss of rip rap on some sections; sewage disposal pond is on the landside of the levee; there is an exposed pipe outlet "hanging" from the upper slope. [2011 Site ID:RD0524U01RM41.79]	37.933347 ° -121.329110 °	37.933347° -121.329110°	
23	1.17	1.25	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.933775 ° -121.329250 °	37.932784 ° -121.328765 °	
24	1.25	1.25	Earthen Levee	Encroachments	LS	С	Garbage	37.932665 ° -121.328808 °	37.932665 ° -121.328808 °	20
25	1.26	1.26	Earthen Levee	Encroachments	LS	СО	Ramp Inspector Comments: Unauthorzied ramps on landside slope.	37.932533 ° -121.328650 °	37.932533 ° -121.328650 °	
26	1.31	1.31	Earthen Levee	Encroachments	WS	М	Pipe Inspector Comments: Pipe is not in use and needs to be properly abandoned.	37.931948 ° -121.328387 °	37.931948 ° -121.328387 °	
27	1.32	1.33	Earthen Levee	Erosion / Bank Caving	WS	М	Schedule repair of erosion site prior to the next inspection.	37.931858 ° -121.328308 °	37.931692 ° -121.328282 °	
28	1.41	1.42	Earthen Levee	Erosion / Bank Caving	WS	М	Note and monitor erosion site.	37.930575 ° -121.328098 °	37.930420 ° -121.328245 °	22
29	1.51	1.51	Earthen Levee	Trim / Thin Trees	LS	U	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.929118 ° -121.328368 °	37.929118 ° -121.328368 °	
30	1.56	1.74	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes.	37.928352 ° -121.328307 °	37.926497 ° -121.326248 °	

Location LS : Land Side WS : Water Side CR : Crown

A : Acceptable
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U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby
Levee Mile No. Start End Category Item ** ag **			GPS Latitude/	Longitude Issue No. End Photo

37.927770 ° 37.927770 ° 31 1.58 1.64 Supplemental DWR Erosion WS U Inspector Comments: 08/23/2011: No significant changes -121.327870 ° -121.327870 ° Survey observed on site. Trees concerned still in place.09/07/2010: No signifcant changes observed on site. The concern here is the undermining of the levee toe where most of trees are. There are erosion pockets lined along the lower slope and at the base of the trees, exposing tree roots. There is minimal slope protection.09/29/2009: The lower slope is lined with minor erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge

							is possibly causing a scour to occur, eroding the bank. [2011 Site ID:RD0524U01RM42.2]		
32	1.62	1.63	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes.	37.927635 ° 37.927540 ° -121.327812 ° -121.327648 °	24 Y
33	1.62	1.63	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	37.927635 ° 37.927540 ° -121.327812 ° -121.327648 °	25 Y
34	1.63	1.66	Earthen Levee	Erosion / Bank Caving	WS	М	Note and monitor erosion site.	37.927507 ° 37.927295 ° -121.327593 ° -121.327298 °	26
35	1.64	1.64	Earthen Levee	Encroachments	WS	СО	Poles Inspector Comments: Landowner constructed boat dock without permit.	37.927372 ° 37.927372 ° -121.327278 ° -121.327278 °	39 Y
36	1.66	1.70	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps. Inspector Comments: Several tree stumps on waterside shoulder.	37.927255 ° 37.926855 ° -121.327137 ° -121.326672 °	8
37	1.69	1.69	Earthen Levee	Encroachments	WS	М	Stairways Inspector Comments: Stairs and retaining wall	37.927018 ° 37.927018 ° -121.326872 ° -121.326872 °	45 Y
38	1.71	1.73	Earthen Levee	Slope Stability	WS	М	Repair slope instability.	37.926728 ° 37.926730 ° -121.326597 ° -121.326508 °	27
39	1.75	1.75	Earthen Levee	Encroachments	LS	U	Garbage	37.926322 ° 37.926322 ° -121.326115 ° -121.326115 °	28 Y
40	1.77	1.77	Earthen Levee	Trim / Thin Trees	LS	М	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.925993 ° 37.926152 ° -121.325777 ° -121.325927 °	46 Y
41	1.80	1.80	Earthen Levee	Encroachments	LS	М	Prunings	37.925752 ° 37.925752 ° -121.325592 ° -121.325592 °	100 Y
42	1.90	1.95	Earthen Levee	Encroachments	LS	РО	Landscaping	37.924364 ° 37.923805 ° -121.324473 ° -121.324238 °	78
43	2.17	2.18	Earthen Levee	Erosion / Bank Caving	WS	W	Note and monitor erosion site.	37.921383 ° 37.921300 ° -121.322043 ° -121.321902 °	30

* Location	** Rating			
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	PO: Partially Obstructing CO: Completely Obstructing W: Watch/Monitor	N : Not Inspected, see Inspector Comment	C : Corrected

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

44	2.22 2.29	End 2.28	Category Earthen Levee	Item	Location	Rating	Action/Comment			No.
				_ :				Start	End	Photo
45	2.29		Levee	Erosion / Bank Caving	WS	М	Note and monitor erosion site.	37.920992 ° -121.321373 °	37.920505 ° -121.320485 °	31
		2.31	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.920372 ° -121.320230 °	37.920273 ° -121.320022 °	32 Y
46	2.34	2.35	Earthen Levee	Erosion / Bank Caving	ws	W	Note and monitor erosion site.	37.919885 ° -121.319713 °	37.919703 ° -121.319702 °	34
47	2.46	2.50	Earthen Levee	Erosion / Bank Caving	ws	М	Note and monitor erosion site.	37.918628 ° -121.320817 °	37.918438 ° -121.321452 °	36
48	2.47	2.48	Earthen Levee	Vegetation	LS	М	Elderberries are blocking visibility and flood fight capability.	37.918575 ° -121.320980 °	37.918515 ° -121.321110 °	35
49	2.48	2.48	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.918480 ° -121.321114 °	37.918480 ° -121.321114 °	80
50	2.52	2.52	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.918345 ° -121.321765 °	37.918302 ° -121.321923 °	37 Y
51	2.53	2.53	Earthen Levee	Vegetation	WS	U	Elderberries are blocking visibility and flood fight capability.	37.918287 ° -121.321980 °	37.918287 ° -121.321980 °	38 Y
52	2.55	2.59	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	37.918060 ° -121.322384 °	37.917667 ° -121.322713 °	82
53	2.56	2.56	Earthen Levee	Vegetation	LS	М	Elderberries are blocking visibility and flood fight capability.	37.918047 ° -121.322415 °	37.918047 ° -121.322415 °	40
54	2.59	2.59	Earthen Levee	Vegetation	LS	М	Elderberries are blocking visibility and flood fight capability.	37.917673 ° -121.322718 °	37.917673 ° -121.322718 °	41
55	2.59	2.59	Earthen Levee	Encroachments	WS	СО	Buildings	37.917673 ° -121.322718 °	37.917673 ° -121.322718 °	42 Y
56	2.60	2.60	Earthen Levee	Animal Control	LS	М	Repair the levee slope damaged by livestock and prevent large animal access.	37.917475 ° -121.322808 °	37.917475 ° -121.322808 °	917
57	2.61	2.65	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.917222 ° -121.322652 °	37.916903 ° -121.322167 °	9
58	2.66	2.66	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.916780 ° -121.322095 °	37.916780 ° -121.322095 °	43 Y
59	2.67	2.69	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.916718 ° -121.322020 °	37.916502 ° -121.321980 °	918
60	2.67	2.67	Earthen Levee	Encroachments	WS	СО	Ramp	37.916698 ° -121.322007 °	37.916698 ° -121.322007 °	920 Y
61	2.67	2.67	Earthen Levee	Erosion / Bank Caving	WS	М	Schedule repair of erosion site prior to the next inspection.	37.916650 ° -121.321987 °	37.916650 ° -121.321987 °	919

Location

LS : Land Side

WS : Water Side CR : Crown

Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

LMR No.	Levee		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude	Issue No.
62	2.71	2.80	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	Start End 37.916180 ° 37.915142 ° -121.322165 ° -121.323018 °	44
63	2.73	2.81	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees over roadway to at least 12 feet above ground level.	37.915937 ° 37.915078 ° -121.322313 ° -121.323232 °	
64	2.73	2.73	Earthen Levee	Encroachments	LS	W	Tree or limb	37.915747 ° 37.915747 ° -121.322470 ° -121.322470 °	
65	2.77	2.77	Earthen Levee	Encroachments	LS	М	Tree or limb Inspector Comments: Broken tree branch.	37.915503 ° 37.915503 ° -121.322745 °	
66	2.81	2.81	Earthen Levee	Encroachments	ws	W	Prunings	37.915125 ° 37.915125 ° -121.323227 °	
67	2.82	2.82	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.915022 ° 37.915022 ° -121.323443 ° -121.323443 °	
68	2.83	2.83	Earthen Levee	Trim / Thin Trees	LS	М	Thin trees to allow visibility of the ground and room to flood fight.	37.915063 ° 37.915063 ° -121.323585 °	
69	2.88	2.88	Earthen Levee	Vegetation	LS	М	Elderberries are blocking visibility and flood fight capability.	37.914427 ° 37.914427 ° -121.324198 ° -121.324198 °	
70	2.93	2.95	Earthen Levee	Encroachments	LS	М	Prunings	37.913767 ° 37.913503 ° -121.324488 °	
71	2.96	2.96	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.913415 ° 37.913415 ° -121.324503 ° -121.324503 °	
72	2.98	2.98	Earthen Levee	Erosion / Bank Caving	WS	М	Note and monitor erosion site. Inspector Comments: Erosion cause by rain runoff.	37.913010 ° 37.913010 ° -121.324497 °	
73	3.04	3.04	Earthen Levee	Animal Control	LS	М	Repair the levee slope damaged by livestock and prevent large animal access.	37.912163 ° 37.912163 ° -121.324702 °	
74	3.10	3.12	Earthen Levee	Animal Control	LS	М	Exterminate rodents and backfill and compact or grout burrows.	37.911382 ° 37.911088 ° -121.324928 ° -121.325113 °	
75	3.23	3.31	Supplemental	DWR Erosion Survey	ws	U	Inspector Comments: 08/23/2011: Sloughing rip rap is visible on the site [2011 Site ID:RD0524U01RM43.83]	37.908544 ° 37.908544 ° -121.324894 °	
76	3.33	3.35	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.908158 ° 37.907872 ° -121.325418 ° -121.325443 °	
77	3.37	3.40	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.907645 ° 37.907157 ° -121.325442 ° -121.325408 °	
78	3.38	3.39	Earthen Levee	Encroachments	LS	СО	Landscaping	37.907407 ° 37.907177 ° -121.325435 ° -121.325392 °	
79	3.39	3.45	Earthen Levee	Animal Control	WS	М	Exterminate rodents and backfill and compact or grout burrows.	37.907283 ° 37.906503 ° -121.325432 ° -121.325002 °	

* Location LS : Land Side

** Rating

WS : Water Side CR : Crown A : Acceptable

M : Minimally Acceptable

U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

LMR	Levee	Mile	Catanani	14	Location *	Rating	A abita to 10 a una na a unb	GPS Latitude/Longitude	Issue No.
No.	Start	End	Category	Item	tion	*ing	Action/Comment	Start End	Photo
80	3.43	3.49	Earthen Levee	Trim / Thin Trees	LS	U	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.906747 ° 37.906192 ° -121.325248 ° -121.324543 °	
81	3.45	3.45	Earthen Levee	Encroachments	LS	М	Material Inspector Comments: Broken concrete pipes	37.906540 ° 37.906540 ° -121.325015 ° -121.325015 °	
82	3.47	3.47	Earthen Levee	Trim / Thin Trees	LS	U	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.906265 ° 37.906265 ° -121.324643 ° -121.324643 °	
83	3.53	3.53	Earthen Levee	Encroachments	LS	СО	Ramp Inspector Comments: Unauthorzied ramp on landside slope.	37.905552 ° 37.905552 ° -121.323847 ° -121.323847 °	
84	3.54	3.64	Earthen Levee	Trim / Thin Trees	LS	М	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.905638 ° 37.904430 ° -121.323892 ° -121.324570 °	
85	3.68	3.68	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landowner cut steps into waterside slope.	37.904113 ° 37.904113 ° -121.325080 ° -121.325080 °	
86	3.80	3.80	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.902645 ° 37.902645 ° -121.326340 ° -121.326340 °	
87	3.82	3.82	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	37.902417 ° 37.902417 ° -121.326482 ° -121.326482 °	
88	3.82	3.82	Earthen Levee	Encroachments	CR	M	Equipment Inspector Comments: Landowner installed temporary piping system without permit.	37.902365 ° 37.902365 ° -121.326453 ° -121.326453 °	
89	3.84	3.85	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	37.902155 ° 37.902002 ° -121.326523 ° -121.326550 °	
90	3.89	4.01	Earthen Levee	Encroachments	LS	М	Equipment	37.901375 ° 37.899745 ° -121.326507 ° -121.326630 °	
91	3.92	3.92	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove cactus	37.900952 ° 37.900952 ° -121.326443 ° -121.326443 °	
92	3.93	3.93	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.900854 ° 37.900854 ° -121.326438 °	
93	4.06	4.06	Earthen Levee	Encroachments	LS	СО	Ramp Inspector Comments: Unauthorized ramp. Ramp does not meet Title 23 standard.	37.899027 ° 37.899027 ° -121.326982 ° -121.326982 °	
94	4.07	4.07	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.898925 ° 37.898925 ° -121.327015 ° -121.327015 °	
95	4.08	4.13	Earthen Levee	Animal Control	LS	М	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.898832 ° 37.898090 ° -121.327092 ° -121.327457 °	

* Location LS : Land Side

Rating

WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

-	Levee Mile		Catagony	Item	1 6	Rating	A -4' (O	GPS Latitude/Longitude		Issue No.
	Start	End	Category	item	Location	ing	Action/Comment	Start	End	Photo
96	4.40	4.56	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.894587 ° -121.329253 °	37.892493 ° -121.328267 °	65
97	4.57	4.57	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps. Inspector Comments: Remove dead tree	37.892368 ° -121.328200 °	37.892368 ° -121.328200 °	102
98	4.58	4.58	Earthen Levee	Encroachments	LS	С	Tree or limb Inspector Comments: Downed tree on landside toe.	37.892222 ° -121.328182 °	37.892222 ° -121.328182 °	103
99	4.64	4.64	Earthen Levee	Encroachments	LS	М	Garbage	37.891365 ° -121.328633 °	37.891365 ° -121.328633 °	66 Y
100	4.64	4.68	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.891337 ° -121.328685 °	37.890953 ° -121.328993 °	63
101	4.71	4.71	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 08/23/2011: Cracking erosion along the levee bank. Erosion appears to be caused by river flows. [2011 Site ID:RD0524U01RM45.27]	37.889809 ° -121.329342 °	37.889809 ° -121.329342 °	47 Y
102	4.74	4.74	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.890108 ° -121.329523 °	37.890108 ° -121.329523 °	67
103	4.95	4.95	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: Down tree laying on landside toe.	37.887578 ° -121.331237 °	37.887578 ° -121.331237 °	95
104	4.98	4.98	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.887277 ° -121.331609 °	37.887277 ° -121.331609 °	84
105	5.11	5.11	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.885400 ° -121.332153 °	37.885400 ° -121.332153 °	68
106	5.17	5.17	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.884592 ° -121.332168 °	37.884592 ° -121.332168 °	71
107	5.20	5.20	Earthen Levee	Trim / Thin Trees	LS	М	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.884075 ° -121.332118 °	37.884075 ° -121.332118 °	72
108	5.32	5.38	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.882377 ° -121.332598 °	37.881498 ° -121.332800 °	85
109	5.43	5.46	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.880945 ° -121.332837 °	37.880522 ° -121.332918 °	932
110	5.46	5.46	Earthen Levee	Animal Control	LS	М	Exterminate rodents and backfill and compact or grout burrows.	37.880575 ° -121.332890 °	37.880575 ° -121.332890 °	931
111	5.48	5.48	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.880085 ° -121.333045 °	37.880085 ° -121.333045 °	73
112	5.57	5.57	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	37.878918 ° -121.333148 °	37.878918 ° -121.333148 °	96

*	L	oc	atio	n	
		_			

WS : Water Side CR : Crown

Rating

A : Acceptable
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PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

LMR	Levee	Mile	Cotogog	Itom	Location	Rating	Action/Commont	GPS Latitud	de/Longitude	Issue No.
No.	Start	End	Category	Item	ation	ing *	Action/Comment	Start	End	Photo
113	5.65	5.66	Supplementa	DWR Erosion Survey	WS	M	Inspector Comments: 08/23/2011: No signficant changes observed on site.09/07/2010: No signficant changes observed on site. Erosion site is located beneath Howard Road Bridge. Majority of the existing rip rap has slipped, dragging away levee materials and exposing the underlying soft soil.08/06/2010: Recommend for annual assessment and monitoring during flood events, per CLRO.09/30/2009: No major changes observed since the last visit; upper portion of existing revetment has slipped, exposing the degrading bank; note that site # is the same as RM46.30, LM5.69 found in the CLRO CES Evaluation 2008 Report; site was previously rated "M".11/04/2008: Previously repaired using rock revetment; upper portion of th revetment is sliding, causing deformation on the levee slope; site is upstream of Howards Road Bridge. [2011 Site ID:RD0524U01RM46.12]	37.877880 ° -121.332550 °	37.877880 ° -121.332550 °	
114	5.84	5.84	Earthen Levee	Encroachments	LS	M	Prunings Inspector Comments: Prunings at landside toe should be burned or removed.	37.875328 ° -121.333050 °	37.875328 ° -121.333050 °	
115	5.86	5.86	Earthen Levee	Animal Control	LS	М	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.875073 ° -121.333168 °	37.875073 ° -121.333168 °	
116	5.92	5.94	Earthen Levee	Animal Control	ws	М	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.874240 ° -121.333187 °	37.874002 ° -121.333027 °	
117	5.92	5.92	Earthen Levee	Erosion / Bank Caving	ws	М	Note and monitor erosion site.	37.874240 ° -121.333185 °	37.874165 ° -121.333155 °	
118	5.97	5.97	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.873678 ° -121.332550 °	37.873678 ° -121.332550 °	
119	5.99	6.00	Earthen Levee	Encroachments	LS	РО	Fences	37.873545 ° -121.332308 °	37.873445 ° -121.332127 °	
120	5.99	6.00	Earthen Levee	Encroachments	LS	СО	Landscaping Inspector Comments: Cactus	37.873543 ° -121.332308 °	37.873445 ° -121.332127 °	
121	6.01	6.05	Earthen Levee	Encroachments	LS	СО	Buildings	37.873377 ° -121.331977 °	37.873102 ° -121.331382 °	
122	6.02	6.02	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.873300 ° -121.331928 °	37.873300 ° -121.331928 °	
123	6.05	6.05	Earthen Levee	Erosion / Bank Caving	WS	М	Schedule repair of erosion site prior to the next inspection.	37.873047 ° -121.331408 °	37.873047 ° -121.331408 °	

* Location LS: Land Side WS: Water Side CR: Crown ** Rating

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Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

LMR I			Category	Category Item *		Rating	Action/Comment	GPS Latitud	INO.	
No.	Start	End			lon g		Start	End	Photo	
124	6.21	6.21	Earthen Levee	Encroachments	WS	M	Pipe Inspector Comments: Open abandoned 10" pipe on waterside slope below flood elevation. Pipe should be removed or properly abandoned.	37.871137 ° -121.330138 °	37.871137 ° -121.330138 °	268 Y
125	6.23	6.23	Earthen Levee	Trim / Thin Trees	LS	М	Trim trees to at least five feet above ground level.	37.870842 ° -121.330000 °	37.870842 ° -121.330000 °	98
126	6.23	6.23	Earthen Levee	Vegetation	LS	М	Remove the wild growth other than native grasses from the levee slopes.	37.870840 ° -121.329993 °	37.870840 ° -121.329993 °	97

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking east at 3" depres near waterward shoulder	
richard_f_20111028_360.jpg	

Levee Mile Report Line	2	
Start Levee Mile	0.36	
End Levee Mile	0.36	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
Garbage pile at landward toe at LM 0.36		

richard_f_20111014_468.jpg

Пспаги_1_20111014_408.јру	
Levee Mile Report Line	3
Start Levee Mile	0.38
End Levee Mile	0.39
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Minor erosion from LM 0.	38 to 0.39
richard_f_20111014_451.jpg	







* Location	

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Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.48
End Levee Mile	0.49
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Major erosion from LM 0.	48 to 0.49
richard f 20111014 452.jpg	

Levee Mile Report Line	4
Start Levee Mile	0.48
End Levee Mile	0.49
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Update of erosion site at	LM 0.48 to 0.49

richard_f_20111014_453.jpg

Levee Mile Report Line	4
Start Levee Mile	0.48
End Levee Mile	0.49
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking southeast at ero 4/2010)	osion (no change as







richard_f_20111014_454.jpg

Location LS : Land Side WS : Water Side CR : Crown

A : Acceptable
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U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	4	
Start Levee Mile	0.48	
End Levee Mile	0.49	
Location	Water Side	
Category	Earthen Levee	
Item	Erosion / Bank Caving	
Looking at erosion from the top of the levee (no change as of 4/2010)		



richard_f_20111014_455.jpg

Levee Mile Report Line	5
Start Levee Mile	0.51
End Levee Mile	0.52
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Frosion from LM 0.51 to	0.52

richard_f_20111014_456.jpg	
Levee Mile Report Line	5
Start Levee Mile	0.51
End Levee Mile	0.52
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Update of erosion site at	LM 0.51 to 0.52





Location

richard_f_20111014_457.jpg

LS : Land Side WS : Water Side CR : Crown

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Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	5	
Start Levee Mile	0.51	
End Levee Mile	0.52	
Location	Water Side	
Category	Earthen Levee	
Item	Erosion / Bank Caving	
Looking southeast at erosion on waterside slope.		

Looking southeast at erosion on waterside slope, no change as of 4/2010

richard_f_20111014_458.jpg

Levee Mile Report Line	5
Start Levee Mile	0.51
End Levee Mile	0.52
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking at erosion from the top of the levee. No change as of 4/2010

richard_f_20111014_459.jpg

Levee Mile Report Line	6
Start Levee Mile	0.53
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the site. Broken concrete used as revetment is sliding, dragging down levee materials.

SJR2011_RD0524U01RM41.15_1.jpg







* Location	
LS : Land Side WS : Water Side CR : Crown	

** Rating

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PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.53
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Direct view of the site.	

SJR2011_RD0524U01RM41.15_2.jpg

Levee Mile Report Line	6
Start Levee Mile	0.53
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view. Sloughing mid-slope possibly caused by sliding of the revetment.

SJR2011_RD0524U01RM41.15_3.jpg

Levee Mile Report Line	6
Start Levee Mile	0.53
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Direct view of the site showing emergent vegetation growing at the midslope.	

SJR2011_RD0524U01RM41.15_4.jpg







* Lo	cation

LS : Land Side WS : Water Side CR : Crown * Rating

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U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

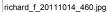
N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	0.63
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking north at bamboo	on waterside slope.



Levee Mile Report Line	8
Start Levee Mile	0.63
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking north at bamboo	on waterside slope, as

Looking north at bamboo on waterside slope as of 4/2010 no change.

richard_f_20111014_461.jpg

Levee Mile Report Line	9
Start Levee Mile	0.64
End Levee Mile	0.64
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Large hole 3 x 3 on levee	e crown near waterside

shoulder at LM 0.64

richard_f_20111014_462.jpg







* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating

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U : Unacceptable

PO: Partially Obstructing
ptable CO: Completely Obstructing
W: Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	10
01-11	
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Catagony	Forthon Loves
Category	Earthen Levee
Item	Slope Stability
	. ,
Erosion from LM 0.65 to	0.66
Elosion from Livi 0.65 to	0.00

richard_f_20111014_463.jpg

Levee Mile Report Line	10
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Update of erosion site at LM 0.65 to 0.66



Levee Mile Report Line	10
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking south at erosion	on waterside shoulder.

richard_f_20111014_465.jpg







Location
LS : Land Side
WS : Water Side
CR : Crown

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U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	11	
Start Levee Mile	0.68	
End Levee Mile	0.68	
Location	Water Side	
Category	Earthen Levee	
Item	Vegetation	
Bamboo on waterward slope at LM 0.68		

richard_f_20111014_466.jpg

Levee Mile Report Line	11	
Start Levee Mile	0.68	
End Levee Mile	0.68	
Location	Water Side	
Category Earthen Levee		
Item Vegetation		
Looking southeast at hamboo on waterside		

Looking southeast at bamboo on waterside shoulder as of 4/2010.

richard_f_20111014_467.jpg

Levee Mile Report Line	12	
Start Levee Mile	0.77	
End Levee Mile	0.78	
Location	Water Side	
Category	Supplemental	
Item	DWR Erosion Survey	
Upstream view of the erosion site. Note the		

railroad bridge.







SJR2011_RD0524U01RM41.39_1.jpg

Location		
LS : Land Side		
WS : Water Side		
CR · Crown		

** Rating

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CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	12	
Start Levee Mile	0.77	
End Levee Mile	0.78	
Location	Water Side	
Category	Supplemental	
Item	DWR Erosion Survey	
Front view of the erosion	site. Vegetation visible	
SJR2011_RD0524U01RM41.39_	_2.jpg	

Levee Mile Report Line	12
Start Levee Mile	0.77
End Levee Mile	0.78
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of erosion	

SJR2011_RD0524U01RM41.39_3.jpg

00112011_1\D002240011\W141.00_0.jpg		
Levee Mile Report Line	13	
Start Levee Mile	0.78	
End Levee Mile	0.78	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
Looking west at dense vegetation on landside toe.		







*	Location	

richard_f_20111028_362.jpg

LS : Land Side WS : Water Side CR : Crown ** Rating

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U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	14	
Start Levee Mile	0.79	
End Levee Mile	0.79	
Location	Land Side	
Category	Earthen Levee	
Item	Trim / Thin Trees	
Looking southwest at low hanging tree branches at landside toe.		
richard_f_20111028_361.jpg		

Levee Mile Report Line	16	
Start Levee Mile	0.91	
End Levee Mile	0.91	
Location	Water Side	
Category	Supplemental	
Item	DWR Erosion Survey	
Format vision of the connection. Next the original		

Front view of the erosion. Not the riprap protection near the site

SJR2011_RD0524U01RM41.5_1.jpg

16
0.91
0.91
Water Side
Supplemental
DWR Erosion Survey

A close view of the erosion







SJR2011_RD0524U01RM41.5_2.jpg

	Location
	LS : Land Side
١	WS : Water Side
	CP · Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	16		
Start Levee Mile	0.91		
End Levee Mile	0.91		
Location	Water Side		
Category	Supplemental		
Item	DWR Erosion Survey		
Front view of the upstream riprap protection.			

SJR2011_RD0524U01RM41.5_3.jpg

Levee Mile Report Line	17	
Start Levee Mile	0.94	
End Levee Mile	1.02	
Location	Land Side	
Category	Earthen Levee	
Item	Trim / Thin Trees	
Landida a cauda at laur banadan tuan buanaban at		

Looking south at low hanging tree branches at landside toe.

richard_f_20111028_363.jpg

Levee Mile Report Line	18
Start Levee Mile	1.00
End Levee Mile	1.01
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the erosion. Note that the riprap protection next to the erosion.

SJR2011_RD0524U01RM41.59_1.jpg







** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	18		
Start Levee Mile	1.00		
End Levee Mile	1.01		
Location	Water Side		
Category	Supplemental		
Item	DWR Erosion Survey		
Close view of the erosion. The protection has been washed away.			
SJR2011_RD0524U01RM41.59_2.jpg			
Loves Mile Banert Line 10			

Levee Mile Report Line	18
Start Levee Mile	1.00
End Levee Mile	1.01
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion

SJR2011_RD0524U01RM41.59_3.jpg

Levee Mile Report Line	18
Start Levee Mile	1.00
End Levee Mile	1.01
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion	

SJR2011_RD0524U01RM41.59_4.jpg







*	L	oc	a	tı	on		
		_					

LS : Land Side WS : Water Side CR : Crown ** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	19			
Start Levee Mile	1.03			
End Levee Mile	1.03			
Location	Water Side			
Category	Earthen Levee			
Item	Erosion / Bank Caving			
Looking upstream (south) at erosion site.				
richard f 20111014 469.jpg				

Levee Mile Report Line	20	
Start Levee Mile	1.09	
End Levee Mile	1.09	
Location	Land Side	
Category	Earthen Levee	
Item	Slope Stability	
Landward slope damage at LM 1.09		

richard f 20111014 470.jpg

nchard_1_20111014_470.jpg	
Levee Mile Report Line	20
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Updated picture of erosic shoulder.	n site on landside







* Location	
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richard_f_20111014_471.jpg

LS : Land Side WS : Water Side CR : Crown ** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	20		
Start Levee Mile			
End Levee Mile	1.09		
Location	Land Side		
Category	Earthen Levee		
Item	Slope Stability		
Update of above slope stability.			
	•		



Levee Mile Report Line 20 Start Levee Mile 1.09 End Levee Mile 1.09 Location Land Side Category Earthen Levee Item Slope Stability Looking at updated slope stability as 4/2010

richard_f_20111014_472.jpg

richard_f_20111014_473.jpg

Levee Mile Report Line	21
Start Levee Mile	1.14
End Levee Mile	1.17
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking northwest at low at waterside toe.	hanging tree branches



Location

richard_f_20111028_364.jpg

LS : Land Side

WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	22			
Start Levee Mile	1.16			
End Levee Mile	1.24			
Location	Water Side			
Category	Supplemental			
Item	DWR Erosion Survey			
Downstream view of the site where sloughing is occurring.				
SJR2011_RD0524U01RM41.79_1.jpg				

Levee Mile Report Line	22			
Start Levee Mile	1.16			
End Levee Mile	1.24			
Location	Water Side			
Category	Supplemental			
Item	DWR Erosion Survey			
Unatroom view of the cite				

Upstream view of the site.



Levee Mile Report Line	22
Start Levee Mile	1.16
End Levee Mile	1.24
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Direct view of the site.	

SJR2011_RD0524U01RM41.79_3.jpg







Location
LS : Land Side
WS : Water Side
CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	1.16
End Levee Mile	1.24
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Direct view of the site.	

SJR2011_RD0524U01RM41.79_4.jpg

Levee Mile Report Line	23	
Start Levee Mile	1.17	
End Levee Mile	1.25	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
Landing and the contract of damage contract on landal data		

Looking southwest at dense veg. on landside toe.

richard_f_20111014_516.jpg

Levee Mile Report Line	25		
Start Levee Mile	1.26		
End Levee Mile	1.26		
Location	Land Side		
Category	Earthen Levee		
Item	Encroachments		
Looking south at unauthorized ramp on landside			

richard_f_20111028_365.jpg







^ Location
LS : Land Side
WS : Water Side
CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

25		
1.26		
1.26		
Land Side		
Earthen Levee		
Encroachments		
Looking northwest at unauthorized ramp on landside slope.		
richard_f_20111028_366.jpg		

Levee Mile Report Line	26
Start Levee Mile	1.31
End Levee Mile	1.31
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking north at broken r	nine

. .

richard_f_20111014_486.jpg

11611d1d_1_20111014_400.jpg			
Levee Mile Report Line	26		
Start Levee Mile	1.31		
End Levee Mile	1.31		
Location	Water Side		
Category	Earthen Levee		
Item	Encroachments		
Looking west at pipe on I	andside slope.		







* Location

LS : Land Side

richard_f_20111014_487.jpg

LS : Land Side WS : Water Side CR : Crown * Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	27		
Start Levee Mile	1.32		
End Levee Mile	1.33		
Location	Water Side		
Category	Earthen Levee		
Item	Erosion / Bank Caving		
Erosion from LM 1.32 to 1.33			
richard_f_20111014_476.jpg			

Levee Mile Report Line	27	
Start Levee Mile	1.32	
End Levee Mile	1.33	
Location	Water Side	
Category	Earthen Levee	
Item	Erosion / Bank Caving	
Looking at erosion from top of levee		

richard_f_20111014_477.jpg			
Levee Mile Report Line	27		
Start Levee Mile	1.32		
End Levee Mile	1.33		
Location	Water Side		
Category	Earthen Levee		
Item	Erosion / Bank Caving		
Looking at update of erosion site at LM 1.32 to 1.33			
richard_f_20111014_478.jpg			







Location	
LS : Land Side	
WS : Water Side	
CR : Crown	

* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	29
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Dense vegetation on landside toe.	

richard_f_20111014_517.jpg

Levee Mile Report Line	29	
Start Levee Mile	1.51	
End Levee Mile	1.51	
Location	Land Side	
Category	Earthen Levee	
Item	Trim / Thin Trees	
Looking south at dense veg. on landside slope and toe.		

richard_f_20111014_518.jpg

Levee Mile Report Line	30	
Start Levee Mile	1.56	
End Levee Mile	1.74	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
Overgrown landscaping on landward slope from LM 1.56 to 1.74		

richard_f_20111014_479.jpg







^ Location		
LS : Land Side		
WS : Water Side		
CR : Crown		

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	31
Start Levee Mile	1.58
End Levee Mile	1.64
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the site who occurred.	ere undermining has

Levee Mile Report Line	31
Start Levee Mile	1.58
End Levee Mile	1.64
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Large trees along the levee toe. There is minimal slope protection. The erosion near tree visible.

SJR2011_RD0524U01RM42.2_2.jpg

SJR2011_RD0524U01RM42.2_1.jpg

Levee Mile Report Line	32	
Start Levee Mile	1.62	
End Levee Mile	1.63	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
Looking north at dense yeg on landside and		

waterside slopes.

richard_f_20111014_480.jpg







LS : Land Side

WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

33		
1.62		
1.63		
Water Side		
Earthen Levee		
Vegetation		
Looking southeast at dense veg. on waterside slope.		



richard_f_20111014_481.jpg

Levee Mile Report Line	35	
Start Levee Mile	1.64	
End Levee Mile	1.64	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking east at non-permitted boat dock.		

richard_f_20111014_493.jpg		
Levee Mile Report Line	35	
Start Levee Mile	1.64	
End Levee Mile	1.64	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking at garbage on waterside slope.		





Location

LS : Land Side

richard_f_20111014_494.jpg

WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	37		
Start Levee Mile	1.69		
End Levee Mile	1.69		
Location	Water Side		
Category	Earthen Levee		
Item	Encroachments		
Looking northeast on non-permitted concrete stairs on waterside slope.			
richard_f_20111014_497.jpg			

Levee Mile Report Line	37	
Start Levee Mile	1.69	
End Levee Mile	1.69	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking west at concrete stairs on waterside		

Looking west at concrete stairs on waterside slope.

richard_f_20111014_498.jpg

Levee Mile Report Line	37		
Start Levee Mile	1.69		
End Levee Mile	1.69		
Location	Water Side		
Category	Earthen Levee		
Item	Encroachments		
Looking southwest at retaning wall connect to concrete stairs.			







*	ocation

LS : Land Side

richard_f_20111014_499.jpg

WS : Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	39		
Start Levee Mile	1.75		
End Levee Mile	1.75		
Location	Land Side		
Category	Earthen Levee		
Item	Encroachments		
Garbage on landward toe from LM 1.75 to 1.76			
richard_f_20111014_482.jpg			

Levee Mile Report Line	39
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking at updated trash and toe.	pile on landside slope

richard_f_20111014_483.jpg

Levee Mile Report Line	39
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at prunings	on landside toe.







richard_f_20111014_484.jpg
* Location

LS : Land Side WS : Water Side CR : Crown ** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	40				
Start Levee Mile	1.77				
End Levee Mile	1.77				
Location	Land Side				
Category	Earthen Levee				
Item	Trim / Thin Trees				
Looking southwest at dense vegetation and low					

hanging tree branches on landside slope and toe.

richard_f_20111028_367.jpg

Levee Mile Report Line	41
Start Levee Mile	1.80
End Levee Mile	1.80
Location	Land Side
Category	Earthen Levee
Item	Encroachments

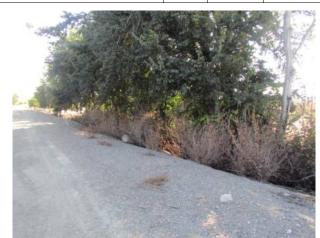
Looking southwest at prunings on landside toe.

richard_f_20111028_368.jpg

Levee Mile Report Line	45				
Start Levee Mile	2.29				
End Levee Mile	2.31				
Location	Land Side				
Category	Earthen Levee				
Item	Vegetation				
Looking south at dense yeg on landside slope					

and toe

richard_f_20111014_485.jpg







Location
LS : Land Side
WS : Water Side
CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	50
Otant Lavas Mila	0.50
Start Levee Mile	2.52
End Levee Mile	2 52
Location	Land Side
Catagony	Earthon Loves
Calegory	Earthen Levee
Item	Vegetation
	_
Looking south at elderbe	rry on landeide elone
Looking south at elderbe	ity off fariuside slope.

richard_	f 2	:011	1014	488	3.jpq
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Levee Mile Report Line	50
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at trees along levee landside toe.

richard_f_20111014_489.jpg

Levee Mile Report Line	50
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking north at elderber slope.	ry and trees on landside

richard_f_20111014_490.jpg







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LS : Land Side WS : Water Side CR : Crown ** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	50	
Start Levee Mile	2.52	
End Levee Mile	2.52	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
Looking southwest at dense vegetation on landside toe.		
richard_f_20111028_369.jpg		

Levee Mile Report Line	51	
Start Levee Mile	2.53	
End Levee Mile	2.53	
Location	Water Side	
Category	Earthen Levee	
Item	Vegetation	
Looking south at elderberry on waterside slope.		

richard_f_20111014_491.jpg

11011d1d_1_20111014_401.jpg		
Levee Mile Report Line	51	
Start Levee Mile	2.53	
End Levee Mile	2.53	
Location	Water Side	
Category	Earthen Levee	
Item	Vegetation	
Looking north at elderberry on waterside slope.		







* Location LS : Land Side

WS : Water Side CR : Crown

richard_f_20111014_492.jpg

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	55	
Start Levee Mile	2.59	
End Levee Mile	2.59	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking at animal pens on landside slope and toe		

richard_f_20111014_495.jpg

Levee Mile Report Line	58	
Start Levee Mile	2.66	
End Levee Mile	2.66	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
l a chiana a contlavorata at atamatona a conclavadici da		

Looking southwest at structures on landiside.

richard_f_20111014_496.jpg

Levee Mile Report Line	60	
Start Levee Mile	2.67	
End Levee Mile	2.67	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking southeast at unauthorized ramp on waterside slope.		

richard_f_20111028_370.jpg







Location
LS : Land Side
WS : Water Side
CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	67	
Start Levee Mile	2.82	
End Levee Mile	2.82	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
Looking south at elderberry on landside slope.		



richard_f_20111014_500.jpg

Levee Mile Report Line	70	
Start Levee Mile	2.93	
End Levee Mile	2.95	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
Looking southwest at prunings on landside slope.		



richard_f_20111014_501.jpg

Levee Mile Report Line	72	
Start Levee Mile	2.98	
End Levee Mile	2.98	
Location	Water Side	
Category	Earthen Levee	
Item	Erosion / Bank Caving	
Looking east at erosion on waterside toe.		



richard_f_20111014_519.jpg

Location
LS : Land Side
WS : Water Side
CD · Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	75
Start Levee Mile	3.23
End Levee Mile	3.31
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Direct view of the site.	

SJR2011_RD0524U01RM43.83_1.jpg

Levee Mile Report Line	75
Start Levee Mile	3.23
End Levee Mile	3.31
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

A closer view of the erosion

Levee Mile Report Line	75
Start Levee Mile	3.23
End Levee Mile	3.31
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Closer view of the erosio	n

SJR2011_RD0524U01RM43.83_3.jpg







* Location	
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LS : Land Side WS : Water Side CR : Crown ** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	75
Start Levee Mile	3.23
End Levee Mile	3.31
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion	

SJR2011_RD0524U01RM43.83_4.jpg

Levee Mile Report Line	80
Start Levee Mile	3.43
End Levee Mile	3.49
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northwest at dense vegetation on landside slope.

richard_f_20111028_371.jpg

Levee Mile Report Line	81
Start Levee Mile	3.45
End Levee Mile	3.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at cortoe.	ncrete pipes on landside

richard_f_20111028_372.jpg







* Location

WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	82	
Start Levee Mile	3.47	
End Levee Mile	3.47	
Location	Land Side	
Category	Earthen Levee	
Item	Trim / Thin Trees	
Looking northwest at low hanging tree branches on landside slope and toe.		

richard_f_20111028_373.jpg

Levee Mile Report Line	85
Start Levee Mile	3.68
End Levee Mile	3.68
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking southeast steps cut into waterside slope.

richard_f_20111028_374.jpg

Levee Mile Report Line	88	
Start Levee Mile	3.82	
End Levee Mile	3.82	
Location	Crown	
Category	Earthen Levee	
Item	Encroachments	
Looking south at unauthorized irrigation pipe		

richard_f_20111028_375.jpg







* Lo	catio	on	

LS : Land Side

landside toe.

WS : Water Side CR : Crown ** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	88	
Start Levee Mile	3.82	
End Levee Mile	3.82	
Location	Crown	
Category	Earthen Levee	
Item	Encroachments	
Looking west at water filtration system on landside toe.		
richard_f_20111028_376.jpg		

•		
Levee Mile Report Line	88	
Start Levee Mile	3.82	
End Levee Mile	3.82	
Location	Crown	
Category	Earthen Levee	
Item	Encroachments	
Looking south unauthorized pvc irrigation pipe across the levee crown.		

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richard_f_20111028_377.jpg		
Levee Mile Report Line	90	
Start Levee Mile	3.89	
End Levee Mile	4.01	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
Looking upstream at equipment on landside shoulder		
richard_f_20111014_502.jpg		







* Location	
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LS : Land Side WS : Water Side CR : Crown ** Rating

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N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	93	
Start Levee Mile	4.06	
End Levee Mile	4.06	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
Looking west at unathorized ramp on landside slope.		
richard_f_20111028_378.jpg		

Levee Mile Report Line	99	
Start Levee Mile	4.64	
End Levee Mile	4.64	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
Garbage at landward toe next to ramp at LM 4.64		

richard_f_20111014_503.jpg

Levee Mile Report Line	101
Start Levee Mile	4.71
End Levee Mile	4.71
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion	site





SJR2011_RD0524U01RM45.27_1.jpg

Location LS : Land Side WS : Water Side CR : Crown

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N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

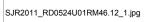
Levee Mile Report Line	101	
Start Levee Mile	4.71	
End Levee Mile	4.71	
Location	Water Side	
Category	Supplemental	
Item	DWR Erosion Survey	
Front view of the erosion. Note the notches caused by the cracking		
SJR2011_RD0524U01RM45.27_2.jpg		
Levee Mile Report Line	101	

Levee Mile Report Line	101
Start Levee Mile	4.71
End Levee Mile	4.71
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the site	•

SJR2011_RD0524U01RM45.27_3.jpg

Levee Mile Report Line	113
Start Levee Mile	5.65
End Levee Mile	5.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Sloughing rip rap just bel	ow the Howard Bridge

abutment.









- PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor
- N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	113
Start Levee Mile	5.65
End Levee Mile	5.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Sloughing rip rap adjacer	nt to Howard Bridge.

SJR2011_RD0524U01RM46.12_2.jpg

Levee Mile Report Line	113
Start Levee Mile	5.65
End Levee Mile	5.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of sloughing rip rap.



Levee Mile Report Line	117
Start Levee Mile	5.92
End Levee Mile	5.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion at waterward toe and around irrigation pipe at LM 5.92

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* L	ocation
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WS : Water Side CR : Crown

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U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

117			
5.92			
5.92			
Water Side			
Earthen Levee			
Erosion / Bank Caving			
Looking southeast at erosion around pipe.			

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Levee Mile Report Line	120	
Start Levee Mile	5.99	
End Levee Mile	6.00	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
Landing and the and at former and another an		

Looking southeast at fence and cactus on landside slope and toe.

richard_f_20111014_510.jpg

Levee Mile Report Line	121
Start Levee Mile	6.01
End Levee Mile	6.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking downstream at b	uilding on landside toe.







LS : Land Side WS : Water Side CR : Crown

richard_f_20111014_511.jpg

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U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/26/2011 10/26/2011	Richard Willoughby

Levee Mile Report Line	124	
Start Levee Mile	6.21	
End Levee Mile	6.21	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking southeast at abandoned pipe on waterside slope.		
richard_f_20111028_379.jpg		

